ELSEVIER

Physica C 301 (1998) 327–329

PHYSICA C

Author Index to Volume 301

Abakumov, A.M., M.G. Rozova, R.V. Shpanchenko, M.L. Kovba, S.N. Putilin, E.V. Antipov, O.I. Lebedev, G. Van Tendeloo, E.M. Kopnin and J. Karpinski, Effect of fluorination on the structure and superconducting properties of $Y_2Ba_4Cu_7O_{14+\delta}$ phases, **301** (1998) 155
Aburto, S., see Akachi, T., **301** (1998) 315
Adachi, S., K. Nakanishi, K. Tanabe, K. Nozawa, H. Takagi, W.-Z. Hu and M. Izumi, Preparation of $YBa_2Cu_4O_8$ single crystals in Y_2O_3 crucible using O_2-HIP apparatus, **301** (1998) 123
Adachi, S., see Wu, X.-J., **301** (1998) 39
Akachi, T., R. Escamilla, V. Marquina, M. Jiménez, M.L. Marquina, R. Gómez, R. Ridaura and S. Aburto, Site occupancy and T_c degradation in iron substituted $YBa_2(Cu_{1-x}Fe_x)_4O_{8+\delta}$, **301** (1998) 315
Antipov, E.V., see Abakumov, A.M., **301** (1998) 155
Awana, V.P.S., J. Horvat, H.K. Liu, S.X. Dou, R. Singh, A.V. Narlikar and M.P. Das, Effect of Cu-site Co, Ni and Ga substitution on the superconductivity of tetragonal $LaBaCaCu_3O_7$ system, **301** (1998) 205
Awana, V.P.S., see Singh, R., **301** (1998) 48

Beňačka, Š., see Plecenik, A., **301** (1998) 234
Berger, J.E., see Shi, J., **301** (1998) 215

Cao, G., Y. Yu and Z. Jiao, A quantitative understanding for the T_c suppression in $Y_{1-x}Pr_xBa_2Cu_3O_7$, **301** (1998) 294
Cardona, M., see Strach, T., **301** (1998) 9
Chen, W.M., see Wu, X.S., **301** (1998) 29
Chenevier, B., see Kitaguchi, H., **301** (1998) 111
Choi, S.S., see Kim, J.-T., **301** (1998) 99
Cichorek, T., Z. Henkie, H. Drulis and J. Klamut, The change of T_c^{onset} in $YBa_2Cu_3O_{7-y}$ due to hydrogenation, **301** (1998) 17
Claus, H., see Zheng, H., **301** (1998) 147

Das, M.P., see Awana, V.P.S., **301** (1998) 205
Denanot, M.F., see Richard, L., **301** (1998) 129
De Wette, F.W., see Paltzer, U., **301** (1998) 55
Diviš, M., V. Nekvasil and J. Kuriplach, Density functional calculation of the crystal field interaction in rare earth cuprates, **301** (1998) 23
Dou, S.X., see Awana, V.P.S., **301** (1998) 205
Dou, S.X., see Guo, Y.C., **301** (1998) 199
Dou, S.X., see Singh, R., **301** (1998) 48
Doyle, R.A., see Rae, A.I.M., **301** (1998) 301
Drulis, H., see Cichorek, T., **301** (1998) 17

Eagles, D.M., Bose–Einstein condensation in finite-length channels composed of weakly interacting filaments, **301** (1998) 165
Edwards, P.P., see Peacock, G.B., **301** (1998) 1
Escamilla, R., see Akachi, T., **301** (1998) 315
Esquinazi, P., see Pan, A., **301** (1998) 72

Fletcher, A., see Peacock, G.B., **301** (1998) 1
Forgan, E.M., see Rae, A.I.M., **301** (1998) 301
Fujiwara, T., see Niiori, Y., **301** (1998) 104

Gameson, I., see Peacock, G.B., **301** (1998) 1
Gmelin, E., see Uma, S., **301** (1998) 141
Gómez, R., see Akachi, T., **301** (1998) 315
Grajcar, M., see Plecenik, A., **301** (1998) 234
Gray, K.E., see Kim, J.-T., **301** (1998) 99
Guo, Y.C., H.K. Liu, X.Z. Liao and S.X. Dou, Improving the current-carrying capacity of silver-sheathed $(Bi,Pb)_2Sr_2Ca_2Cu_3O_{10}$ superconductors by cryogenic deformation, **301** (1998) 199

Hahn, T.S., see Kim, J.-T., **301** (1998) 99
Hasegawa, M., see Suzuki, T., **301** (1998) 173
Hasegawa, T., see Miao, H., **301** (1998) 116
Henkie, Z., see Cichorek, T., **301** (1998) 17
Hettinger, J.D., see Kim, J.-T., **301** (1998) 99
Higashiyama, K., see Niiori, Y., **301** (1998) 104
Hirabayashi, I., see Niiori, Y., **301** (1998) 104
Höhne, R., see Pan, A., **301** (1998) 72
Horvat, J., see Awana, V.P.S., **301** (1998) 205
Horvat, J., see Singh, R., **301** (1998) 48
Hu, W.-Z., see Adachi, S., **301** (1998) 123

Itoh, K., see Mao, D., **301** (1998) 272
Izumi, M., see Adachi, S., **301** (1998) 123

Jansen, M., see Kazin, P.E., **301** (1998) 185
Jiang, M., see Zheng, H., **301** (1998) 147
Jiang, S.S., see Wu, X.S., **301** (1998) 29
Jiao, Z., see Cao, G., **301** (1998) 294
Jiménez, M., see Akachi, T., **301** (1998) 315

Kang, W.N., see Kim, J.-T., **301** (1998) 99
Karpinski, J., see Abakumov, A.M., **301** (1998) 155

Kazin, P.E., M.A. Uskova, Yu.D. Tretyakov, M. Jansen, S. Scheurell and E. Kemnitz, Formation of Bi(Pb)-2223 with chemically compatible V-rich phase, **301** (1998) 185
Kemnitz, E., see Kazin, P.E., **301** (1998) 185
Kim, C.H., see Kim, J.-T., **301** (1998) 99
Kim, D.H., see Kim, J.-T., **301** (1998) 99
Kim, J.-T., W.N. Kang, H.R. Lim, D.H. Kim, Y.K. Park, J.-C. Park, C.H. Kim, T.S. Hahn, S.S. Choi, J.D. Hettinger and K.E. Gray, Pinning effect on critical dynamics in $YBa_2Cu_3O_{7-\delta}$ films with inherent random disorder and with columnar defects, **301** (1998) 99
Kishi, H., see Takanaka, K., **301** (1998) 243
Kitaguchi, H., H. Miao, H. Kumakura, K. Togano and B. Chenevier, Critical current density distribution in superconducting oxide layer of $Bi_2Sr_2CaCu_2O_x$/Ag composite tapes, **301** (1998) 111
Kitaguchi, H., see Miao, H., **301** (1998) 116
Klamut, J., see Cichorek, T., **301** (1998) 17
Knappe, S., see Pan, A., **301** (1998) 72
Koch, H., see Pan, A., **301** (1998) 72
Kopnin, E.M., see Abakumov, A.M., **301** (1998) 155
Kovba, M.L., see Abakumov, A.M., **301** (1998) 155
Kuboya, K., see Takanaka, K., **301** (1998) 243
Kuchiev, M.Yu., P.V. Shevchenko and O.P. Sushkov, The bulk Josephson response of the d–g-wave cuprate superconductors, **301** (1998) 255
Kumakura, H., see Kitaguchi, H., **301** (1998) 111
Kumakura, H., see Miao, H., **301** (1998) 116
Kuriplach, J., see Diviš, M., **301** (1998) 23
Kuroda, T., see Mao, D., **301** (1998) 272
Kyung, B., Evolution of the Fermi surface geometry in high T_c superconductors: from small hole pockets to a large tight binding Fermi surface, **301** (1998) 85

Lebedev, O.I., see Abakumov, A.M., **301** (1998) 155
Li, Y., see Wu, X.S., **301** (1998) 29
Liao, X.Z., see Guo, Y.C., **301** (1998) 199
Lim, H.R., see Kim, J.-T., **301** (1998) 99
Ling, X.S., see Shi, J., **301** (1998) 215
Liu, H.K., see Awana, V.P.S., **301** (1998) 205
Liu, H.K., see Guo, Y.C., **301** (1998) 199
Liu, W.J., see Wu, X.S., **301** (1998) 29

Mamiya, M., see Suzuki, T., **301** (1998) 173
Mao, D., K. Itoh, T. Kuroda, M. Yuyama, H. Wada and Y. Murakami, Magnetization measurement for a nearly stoichiometric Nb_3Al wire, **301** (1998) 272
Marquina, M.L., see Akachi, T., **301** (1998) 315
Marquina, V., see Akachi, T., **301** (1998) 315
Martin, A.A., see Strach, T., **301** (1998) 9
Martinez, B., see Richard, L., **301** (1998) 129
Matthes, A., see Plecenik, A., **301** (1998) 234
Miao, H., H. Kitaguchi, H. Kumakura, K. Togano and T. Hasegawa, Effects of PAIR (pre-annealing and intermediate rolling) process on superconducting properties of $Bi_2Sr_2CaCu_2O_x$/Ag multilayer tapes, **301** (1998) 116
Miao, H., see Kitaguchi, H., **301** (1998) 111
Miller, D.J., see Zhang, X.F., **301** (1998) 221
Murakami, Y., see Mao, D., **301** (1998) 272
Muroi, M. and R. Street, Inhomogeneous superconductivity in $Y_{1-x}Pr_xBa_{2-y}Sr_yCu_3O_7$, **301** (1998) 277

Nakanishi, K., see Adachi, S., **301** (1998) 123
Narlikar, A.V., see Awana, V.P.S., **301** (1998) 205
Narlikar, A.V., see Singh, R., **301** (1998) 48
Nekvasil, V., see Diviš, M., **301** (1998) 23
Niiori, Y., Y. Yamada, I. Hirabayashi, T. Fujiwara and K. Higashiyama, In-plane aligned $YBa_2Cu_3O_{7-x}$ film on the MgO buffered Ag(100) substrate and {100}[001] cubic textured silver tape, **301** (1998) 104
Niraimathi, A.M., see Strach, T., **301** (1998) 9
Nozawa, K., see Adachi, S., **301** (1998) 123

Obradors, X., see Richard, L., **301** (1998) 129
Obst, B., see Zheng, H., **301** (1998) 147
Ohkawa, F.J., Anisotropic renormalization of quasiparticles in cuprate-oxide superconductors, **301** (1998) 246

Paltzer, U., F.W. de Wette, U. Schröder and E. Rampf, Surface dynamics of $Bi_2CaSr_2Cu_2O_8$, **301** (1998) 55
Pan, A., M. Ziese, R. Höhne, P. Esquinazi, S. Knappe and H. Koch, Surface superconductivity and matching effect in a niobium thin film, **301** (1998) 72
Park, J.-C., see Kim, J.-T., **301** (1998) 99
Park, Y.K., see Kim, J.-T., **301** (1998) 99
Patanjali, P.V. and V. Seshu Bai, Weaklink response to the radio frequency (MHz) absorption in GdBCO superconductor, **301** (1998) 192
Peacock, G.B., A. Fletcher, I. Gameson and P.P. Edwards, Synthesis and superconductivity of highly underdoped $HgBa_2CuO_{4+\delta}$, **301** (1998) 1
Plecenik, A., M. Grajcar, P. Seidel, S. Takács, A. Matthes, M. Zuzcak and Š. Beňačka, Influence of bias voltage history on conductance properties of YBaCuO/normal metal junctions, **301** (1998) 234
Putilin, S.N., see Abakumov, A.M., **301** (1998) 155

Quick, R.M. and S.G. Sharapov, Persistence of pseudogap formation in quasi-2D systems with arbitrary carrier density, **301** (1998) 262

Rabier, J., see Richard, L., **301** (1998) 129
Rae, A.I.M., E.M. Forgan and R.A. Doyle, The interpretation of magnetisation and entropy jumps in the mixed state of high-temperature superconductors, **301** (1998) 301
Rampf, E., see Paltzer, U., **301** (1998) 55
Rangarajan, G., see Uma, S., **301** (1998) 141
Richard, L., M.F. Denanot, J. Rabier, F. Sandiumenge, E. Rodriguez, B. Martinez and X. Obradors, Microstructure and flux dynamics in $YBa_2Cu_3O_7$ plastically deformed at room temperature, **301** (1998) 129
Ridaura, R., see Akachi, T., **301** (1998) 315
Rodriguez, E., see Richard, L., **301** (1998) 129
Rozova, M.G., see Abakumov, A.M., **301** (1998) 155
Ruf, T., see Strach, T., **301** (1998) 9

Sandiumenge, F., see Richard, L., **301** (1998) 129
Scheurell, S., see Kazin, P.E., **301** (1998) 185
Schröder, U., see Paltzer, U., **301** (1998) 55
Seidel, P., see Plecenik, A., **301** (1998) 234
Seshu Bai, V., see Patanjali, P.V., **301** (1998) 192
Sharapov, S.G., see Quick, R.M., **301** (1998) 262
Shevchenko, P.V., see Kuchiev, M.Yu., **301** (1998) 255
Shi, J., J.E. Berger and X.S. Ling, Growth of $YBa_2Cu_3O_7$-crystals with $BaZrO_3$-coated alumina crucibles, **301** (1998) 215
Shpanchenko, R.V., see Abakumov, A.M., **301** (1998) 155
Singh, R., A.V. Narlikar, V.P.S. Awana, J. Horvat and S.X. Dou, Synthesis, structural aspects and superconductivity of $La_{1-x}RE_xBaCaCu_3O_7$ with RE = Nd, Dy, Sm and Pr, **301** (1998) 48
Singh, R., see Awana, V.P.S., **301** (1998) 205
Strach, T., T. Ruf, A.M. Niraimathi, A.A. Martin and M. Cardona, Raman study of phonons and crystal-field excitations in $NdBa_2Cu_{3-x}Ga_xO_{7-\delta}$, **301** (1998) 9
Street, R., see Muroi, M., **301** (1998) 277
Sung, Y.S., see Zhang, X.F., **301** (1998) 221
Sushkov, O.P., see Kuchiev, M.Yu., **301** (1998) 255
Suzuki, T., K.-i. Yumoto, M. Mamiya, M. Hasegawa and H. Takei, A phase diagram of the $Bi_2Sr_2CuO_6$–$CaCuO_2$ system in relation to Bi-based superconductors, **301** (1998) 173

Takács, S., see Plecenik, A., **301** (1998) 234
Takagi, H., see Adachi, S., **301** (1998) 123
Takanaka, K., H. Kishi and K. Kuboya, Angular dependence of upper critical field, **301** (1998) 243
Takei, H., see Suzuki, T., **301** (1998) 173
Tanabe, K., see Adachi, S., **301** (1998) 123
Tanabe, K., see Wu, X.-J., **301** (1998) 39
Tatsuki, T., see Wu, X.-J., **301** (1998) 39
Togano, K., see Kitaguchi, H., **301** (1998) 111
Togano, K., see Miao, H., **301** (1998) 116
Topaçlı, C., Magnetically modulated microwave absorption studies on high-T_c powdered materials, **301** (1998) 92
Tretyakov, Yu.D., see Kazin, P.E., **301** (1998) 185

Uma, S., G. Rangarajan and E. Gmelin, Influence of Al substitution in $PrBa_2Cu_3O_{7-\delta}$ single crystals, **301** (1998) 141
Uskova, M.A., see Kazin, P.E., **301** (1998) 185

Van Tendeloo, G., see Abakumov, A.M., **301** (1998) 155
Veal, B.W., see Zheng, H., **301** (1998) 147

Wada, H., see Mao, D., **301** (1998) 272
Wu, X.-J., T. Tatsuki, S. Adachi and K. Tanabe, Structural evolution of a $(Hg_{0.6},Tl_{0.4})_2Ba_2Ca_2Cu_3O_{9.9}$ superconductor induced by reduction, **301** (1998) 39
Wu, X.S., X.H. Xiang, W.M. Chen, Y. Li, W.J. Liu and S.S. Jiang, Structural anomalies in $LaBa_2Cu_3O_x$ cuprates with iron substitution, **301** (1998) 29

Xiang, X.H., see Wu, X.S., **301** (1998) 29

Yamada, Y., see Niiori, Y., **301** (1998) 104
Yu, Y., see Cao, G., **301** (1998) 294
Yumoto, K.-i., see Suzuki, T., **301** (1998) 173
Yuyama, M., see Mao, D., **301** (1998) 272

Zhang, X.F., Y.S. Sung and D.J. Miller, Special Tl–Ba–Ca–Cu–O structures: two intermediate states and their superconducting behavior, **301** (1998) 221
Zheng, H., M. Jiang, B.W. Veal, H. Claus and B. Obst, Growth rate dependence of physical properties of $YBa_2Cu_3O_x$ single crystals, **301** (1998) 147
Ziese, M., see Pan, A., **301** (1998) 72
Zuzcak, M., see Plecenik, A., **301** (1998) 234

ELSEVIER

Physica C 301 (1998) 331–332

PHYSICA C

Analytic Subject to Volume 301

AC susceptibility
–of $La_{1-x}RE_xBaCaCu_3O_7$ 48
–of $LaBaCaCu_{3-x}M_xO_7$ 205
Aerial oxidation
–of $HgBa_2CuO_{4+\sigma}$ 1
Alignment
–of $YBa_2Cu_3O_{7-x}$ film 104
Angle-resolved photoemission 85
Annealing effect
–on $Bi_2Sr_2CaCu_2O_x$/Ag tapes 116
Anomalous structural phase transition
–in $LaBa_2Cu_{3-y}Fe_yO_x$ 29
Ar annealing treatment
–for $(Hg_{0.6},Tl_{0.4})_2Ba_2Ca_2Cu_3O_{9.9}$ 39
Arbitrary carrier density 262

$BaZrO_3$ crucibles
–for $YBa_2Cu_3O_{7-\delta}$ crystals 215
Berezinskii-Kosterlitz-Thouless phase 262
Bose–Einstein condensation 165
Buffer layer
–in $YBa_2Cu_3O_{7-x}$ film 104

Charge transfer
–in $NdBa_2Cu_{3-x}Ga_xO_{7-\delta}$ 9
Columnar defects
–in $YBa_2Cu_3O_{7-\delta}$ films 99
Critical current
–of $(Bi,Pb)_2Sr_2Ca_2Cu_3O_{10}$ 199
–of $YBa_2Cu_3O_{7-x}$ 129
Critical current density
–of $Bi_2Sr_2CaCu_2O_x$/Ag tapes 111
–of $Bi_2Sr_2CaCu_2O_x$/Ag tapes 116
–of Nb film 72
–of $YBa_2Cu_3O_x$ single crystals 147
Critical dynamics
–in $YBa_2Cu_3O_{7-\delta}$ films 99
Critical state model 92
Cryogenic deformation
–of $(Bi,Pb)_2Sr_2Ca_2Cu_3O_{10}$ 199
Crystal field interaction 23
Crystal structural evolution
–in $(Hg_{0.6},Tl_{0.4})_2Ba_2Ca_2Cu_3O_{9.9}$ 39
Crystal-field excitations
–in $NdBa_2Cu_{3-x}Ga_xO_{7-\delta}$ 9
Cuprate oxides 246

Defect structure
–in $Tl_2Ba_2CaCu_2O_y$ 221
Defect structures
–of Nb/NbZr superlattice 243
Density functional calculations 23
$1/d$ expansion method 246
Dislocation
–in $YBa_2Cu_3O_{7-x}$ 129
Doping effects
–in $NdBa_2Cu_{3-x}Ga_xO_{7-\delta}$ 9

Electrical resistivity
–of $YBa_2Cu_3O_{7-\delta}$ films 99
Electron microscopy
–on $Y_2Ba_4Cu_7O_{14}F_\delta$ 155
Electronic structure 23
Entropy jumps 301

Fabrication process
–of $Bi_2Sr_2CaCu_2O_x$/Ag tapes 116
Fermi surface 255, 301 85
Filament arrays 165
Finite-length channels 165
Fish-tail effect
–in $YBa_2Cu_4O_8$ single crystals 123
Fluorination
–of $Y_2Ba_4Cu_7O_{14+\delta}$ 155
Flux density 301
Flux dynamics
–in $YBa_2Cu_3O_{7-x}$ 129
Flux lattice melting 301
Flux pinning
–in Nb film 72
–in $YBa_2Cu_3O_{7-\delta}$ films 99

Ginzburg-Landau theory 243
Growth
–of $YBa_2Cu_3O_{7-\delta}$ crystals 215
Growth rate
–of $YBa_2Cu_3O_x$ single crystals 147

High-Tc superconductors 129
Hole concentration 301 85
–in $Y_{1-x}Pr_xBa_{2-y}Sr_yCu_3O_7$ 277
Hole transfer
–in $Y_{1-x}Pr_xBa_2Cu_3O_7$ 294
Hubbard model 246
Hydrogenation
–of $H_xYBa_2Cu_3O_{7-y}$ 17
Hysteresis 92

IV-characteristics
–of $YBa_2Cu_3O_{7-x}$ junctions 234
Inelastic transport
–in $YBa_2Cu_3O_{7-x}$ junctions 234
Inhomogeneous superconductivity
–in $Y_{1-x}Pr_xBa_{2-y}Sr_yCu_3O_7$ 277
Iron substitution
–in $YBa_2(Cu_{1-x}Fe_x)_4O_{8+\delta}$ 315
Irradiation effect
–on $YBa_2Cu_3O_{7-\delta}$ films 99

Josephson response 255

Linear background 234

Magnetic scattering effect
–in $Y_{1-x}Pr_xBa_2Cu_3O_7$ 294
Magnetic susceptibility
–of $PrBa_2Cu_{3-y}Al_yO_{7-\delta}$ single crystal 141
–of $Y_2Ba_4Cu_7O_{14+\delta}$ 155
–of $Y_2Ba_4Cu_7O_{14}F_\delta$ 155
Magnetisation 301
Magnetization
–of Bi(Pb)-2223 185
–of Nb_3Al wire 272
–of $YBa_2Cu_3O_x$ single crystals 147
Magnetoabsortion
–in GdBCO 192
Matching effect
–in Nb film 72
Microstructure
–of $(Bi,Pb)_2Sr_2Ca_2Cu_3O_{10}$ 199
–of $Bi_2Sr_2CaCu_2O_x$/Ag tapes 116
Microwave absorption
–in $Bi_2Sr_2Ca_1Cu_2O_y$ 92
–in $Bi_2Sr_2Ca_2Cu_3O_y$ 92
–in $Y_1Ba_2Cu_3O_y$ 92

Mixed state 301
Mössbauer spectroscopy
–on $YBa_2(Cu_{1-x}Fe_x)_4O_{8+\delta}$ 315
Multilayers 243

Nonlinear absorption 255
Normal phase 262
Normal-state properties 246

Oxygen stoichiometry
–in $YBa_2Cu_3O_x$ single crystals 147
–of $H_xYBa_2Cu_3O_{7-y}$ 17

Penetration depth
–in GdBCO 192
Percolation model
–for $Y_{1-x}Pr_xBa_{2-y}Sr_yCu_3O_7$ 277
Phase diagram
–of $Bi_2Sr_2CuO_6$–$CaCuO_2$ 173
Phase formation
–in Bi(Pb)-2223 + $nSr_{2.8}Ca_{0.2}Cu_{0.3}V_2O_z$ 185
Pinning force
–in Nb film 72
–in Nb_3Al wire 272
Pseudogap 246
Pseudogap phase 262
Pulsed laser deposition
–of $YBa_2Cu_3O_{7-x}$ film 104

Quasi-2D metal 262

Radio frequency absorption
–in GdBCO 192
Raman scattering
–of $NdBa_2Cu_{3-x}Ga_xO_{7-\delta}$ 9
Rare earths cuprates 23
Rietveld refinement
–for $(Hg_{0.6},Tl_{0.4})_2Ba_2Ca_2Cu_3O_{9.9}$ 39
–for $YBa_2(Cu_{1-x}Fe_x)_4O_{8+\delta}$ 315
Rietveld refinements
–for $LaBa_2Cu_{3-y}Fe_yO_x$ 29

Scaling law 272
Site occupancy
–in $YBa_2(Cu_{1-x}Fe_x)_4O_{8+\delta}$ 315
Specific heat
–of $PrBa_2Cu_{3-y}Al_yO_{7-\delta}$ single crystal 141
Spin fluctuations 246
Structural property
–of $YBa_2Cu_4O_8$ single crystals 123
Structure
–of $(Hg_{0.6},Tl_{0.4})_2Ba_2Ca_2Cu_3O_{9.9}$ 39
–of $HgBa_2CuO_{4+\sigma}$ 1
–of $La_{1-x}RE_xBaCaCu_3O_7$ 48
–of $LaBaCaCu_{3-x}M_xO_7$ 205
–of $PrBa_2Cu_{3-y}Al_yO_{7-\delta}$ single crystal 141
–of $Tl_2Ba_2CaCu_2O_y$ 221
–of $Y_2Ba_4Cu_7O_{14}F_\delta$ 155
–of $YBa_2Cu_3O_{7-x}$ film 104
Substitution effect
–in $PrBa_2Cu_{3-y}Al_yO_{7-\delta}$ 141
Substitution effects
–in $Y_{1-x}Pr_xBa_{2-y}Sr_yCu_3O_7$ 277
–on $LaBaCaCu_{3-x}M_xO_7$ 205
Superlattices
–in $Tl_2Ba_2CaCu_2O_y$ 221
Superstructure
–in $Bi_2CaSr_2Cu_2O_8$ 55
Suppression of T_c
–in $Y_{1-x}Pr_xBa_2Cu_3O_7$ 294
Surface dynamics
–of $Bi_2CaSr_2Cu_2O_8$ 55
Surface phonons
–of $Bi_2CaSr_2Cu_2O_8$ 55
Surface structure
–of $Bi_2CaSr_2Cu_2O_8$ 55
Surface superconductivity
–in Nb film 72
Synthesis
–of $HgBa_2CuO_{4+\sigma}$ 1
–of $La_{1-x}RE_xBaCaCu_3O_7$ 48
–of $LaBa_2Cu_{3-y}Fe_yO_x$ 29
–of $YBa_2(Cu_{1-x}Fe_x)_4O_{8+\delta}$ 315
–of $YBa_2Cu_3O_{7-\delta}$ crystals 215
–of $YBa_2Cu_4O_8$ single crystals 123

Tc degradation
–of $YBa_2(Cu_{1-x}Fe_x)_4O_{8+\delta}$ 315
Thermoelectric power
–of $H_xYBa_2Cu_3O_{7-y}$ 17
Thickness dependence
–for $Bi_2Sr_2CaCu_2O_x$/Ag tapes 111
Transmission electron microscopy
–on $YBa_2Cu_3O_{7-x}$ 129
Tunneling spectroscopy
–of $YBa_2Cu_3O_{7-x}$ junctions 234
Two-gap superconductors 255

Underdoping
–of $HgBa_2CuO_{4+\sigma}$ 1
Upper critical field H_{c2}
–of Nb/NbZr superlattice 243

Vanadates
–in Bi(Pb)-2223 185

Weak link model 92
Weaklinks
–in GdBCO 192

X-ray diffraction
–of $La_{1-x}RE_xBaCaCu_3O_7$ 48
–of $LaBa_2Cu_{3-y}Fe_yO_x$ 29
–on $LaBaCaCu_{3-x}M_xO_7$ 205
X-ray powder diffraction
–on $Bi_2Sr_2CuO_6$–$CaCuO_2$ 173

Y_2O_3 crucible
–for $YBa_2Cu_4O_8$ single crystals 123